

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721920003-7"

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SOV/96-58-6-3/24

AUTHORS: Khay

Khaybullin, I.Kh. Cand. Tech. Sci. and Zenkevich Yu. V.

Cand. Tech. Sci.

TITLE:

On the nature of the carry-over of silicic acid by high-pressure steam. (O prirode unosa kremniyevoy kisloty parom vysokogo davleniya)

PERIODICAL:

Teploenergetika, 1958, \vee , \mathcal{S} . No.6. pp. 16 - 20. (USSR)

ABSTRACT:

Silicic acid carry-over by steam has been explained in many different ways, because it is a complicated phenomenon. Silicio acid exists in aqueous solution in many different forms, including colloidal; in botlor water, it is in equilibrium with its alkali salts. If the builer water is alkaline, the silica is present in the water as sedium silicate and in the steam as silicic acid; the difference is not revealed by the usual chemical analysis, and the amount of carry-over depends on the pli value of the water as well as on the ratio of the Si02 in the steam to that in the water. When the pH value is about 7, which corresponds to free silicic acid, the carry-over coefficient is equal to the ratio of the SiO2 contents of steam and water. In high-pressure boilers, where the pH is not less than 10, polymerisation of SiO2 is hardly possible and the compound is in true solution so that no allowance need by made for its polymerisation. This is confirmed by previous work on the solubility of different forms of SiO2, plotted in fig.2. In the light of this, and of the laws of phase equilibrium and distribution of substances

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On the nature of the carry-over of silicic acid by high SOV/96-58-6-3/24 pressure steam.

between phases, it was possible to unify all the experimental data on carry-over of SiO2 by saturated steam with data on the solubility of SiO2 in water and superheated steam, and to draw up a complete diagram of state of the system SiO2-H2O. For this two-phase system, the coefficient of distribution of Sio2 between phases is a function only of pressure; the corresponding relationship is plotted in fig.3. This graph also includes curves for other substances found in boilerwater. Graphs of the solubility of SiO2 in superheated steam are plotted in fig.4; a corresponding formula is given, the values of its constants being indicated in tables 2 and 3. SiO2 solubility figures calculated from the above were in good agreement with experimental results over the pressure range 120 - 185 atms. determined in a power station. The complete diagram of state of the system SiO2-H2O is plotted in figs. 5 and 6. The upper boundary line gives the solubility of quarts in boiling water at the corresponding pressure. The lower boundary line indicates the solubility of quartz in saturated steam in equilibrium with a boiling saturated solution of SiO2. The critical point for SiO2 solution is only 0.20C above that for pure water. To the right of the saturation line is the region of equilibrium between superheated and supercritical steam and solid SiO2. Isobars of

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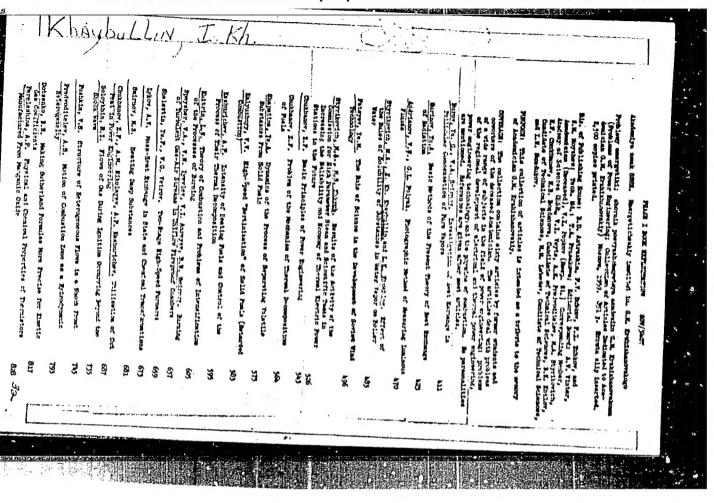
On the nature of the carry-over of silicic acid by high SOV/96-58-6-3/24 pressure steam.

> solubility of SiO2 in steam are given. Available experimental data fit fairly well into the diagram. There is little experimental data on the solubility of amorphous forms of SiO2. Part of the diagram of state for amorphous SiO2 - H2O is given in fig.6, including the region of pressure 5.7 - 35 atm and temperature 150 - 400°C. There are 6 figures, 3 tables and 16 literature references (10 Soviet, 5 English and 1 German).

ASSOCIATIONS: The Power Inst. Acad. Sci. USSR and the Central Boiler Turbine Institute. (Fuergeticheskiy Institut AN SSSR 1 Tsentral'nyy kotloturbinnyy institut)

> 1. Boilers--Performance 2. Feed water--Impurities 3. Steam --Properties 4. Silicates--Solubility

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SOV/96-59-9-9/22

MENNAMED WHAT I THE PARTY OF TH

Styrikovich, M.A., (Corresponding Member, Ac.Sc. USSR), Martynova, O.I., Khaybullin, I.Kh (Candidates of AUTHORS:

Technical Sciences) and Mingulina, E. I. (Engineer)

TITLE: Some Relationships of the Transfer of Weak Mineral Acids to Saturated Steam

PERIODICAL: Teploenergetika, 1959, Nr 9, pp 50-56 (USSR)

ABSTRACT: In studying the carry-over of substances from boiler water by steam it has been noticed that the elements Si, B and Al, whose compounds are of high solubility in steam, have hydroxides which are weak electrolytes and so should be present in the boiler water primarily in molecular form. There was thus reason to suppose that the ability of a compound to become dissolved in steam depends upon whether it is in molecular or ionic form in the boiler water. Indeed, as will be seen from the graphs given in Fig 1, strong electrolytes are much less soluble in saturated steam than in weak, and they are much less subject to transfer to the steam. In relatively weak alkaline solutions the salts of weak acids are hydrolysed,

Card 1/5 particularly at high temperatures and low alkalinities. Under such circumstances, molecules of the corresponding

Some Relationships of the Transfer of Weak Mineral Acids to

aclds can be present in the boiler water and can be transferred relatively easily to the saturated steam. The transfer to saturated steam of salts that are not hydrolised is probably due to the formation in solution of ionic pairs; however, ions can only participate in the contamination of steam at extreme values of pH. Materials soluble in ionic form become important near the critical pressure and even then only at low values of pH. It may be assumed that under ordinary conditions all the transfer to steam is by transfer of molecules contained in the water. The solubility of silica compounds in steam has been studied in particular detail. The various forms of silica and silicic acid that are present in equilibrium are shown in Eq (1). This system may be quantitatively characterised by the hydrolysis equation (2) or (3). It follows from the equations that the equilibrium state corresponding to a given temperature and silica content of the boiler water is functionally related to the concentration of OH- of OH tons in solution. Thus alteration in the pH value alters the equilibrium, so that at any given temperature the concentration of the most

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Some Relationships of the Transfer of Weak Mineral Acids to Saturated Steam

soluble form of silica in steam is a single-valued function of the pH value of the boiler water. distinction is drawn between the real and apparent distribution coefficients of silica in steam. The ratio of H₂SiO₃ in the steam to the total silica content of the boiler water expressed as SiO2 is the apparent distribution coefficient. It is sometimes called the transfer coefficient, and is given by Eq (4). However, the true distribution coefficient is the ratio of H2SiO3 in the steam to that in the water, which is a function only of the densities of the two media. The true and apparent transfer coefficients are related by Eq (6). Using Eq (6) it is easy to calculate the concentration of the molecular form of silicic acid that can be present in solutuon for any given total silica content at a given pH value. The degree of hydrolysis should be calculated at the correct temperature. Graphs showing the proportions of different forms of silicic acid in solution as functions of the pH value are given in Fig 2. The graph is based on the pH value of cold water: the

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Some Relationships of the Transfer of Weak Mineral Acids to Saturated Steam

relative proportions of the different silica compounds would be very different at a temperature of 316 °C at a pressure of 110 atm, because the pH value is very different under these conditions. Similar curves may be constructed for other substances, and by way of example curves of the apparent distribution coefficient of boric acid as function of pH value are given in Fig 3. Curves of the degree of hydrolysis as functions of the true pH value for compounds with different dissociation constants are given in Fig 4. Here it will be seen that reduction in the dissociation factor leads to an increase of the proportion in molecular form for any given value of pH. An attempt was made to estimate approximately the value of the dissociation factor for silicic acid at high water temperature; the results are plotted in Fig 5. Published experimental points are included and show good agreement with theoretical curves. The curves of the dissociation constant of silicic acid as functions of water temperature are given in Fig 5. All the calculated points lie on the saturation line and so reflect the

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Some Relationships of the Transfer of Weak Mineral Acids to

dependence of the dissociation constant on pressure as well as on temperature. In conclusion, the article by Kostrikin published in Teploenergetika Nr 6, 1958, is adversely criticised and it is claimed that Kostrikin reaches incorrect conclusions, particularly in supposing that the dissociation factor of silicic acid is independent of temperature.

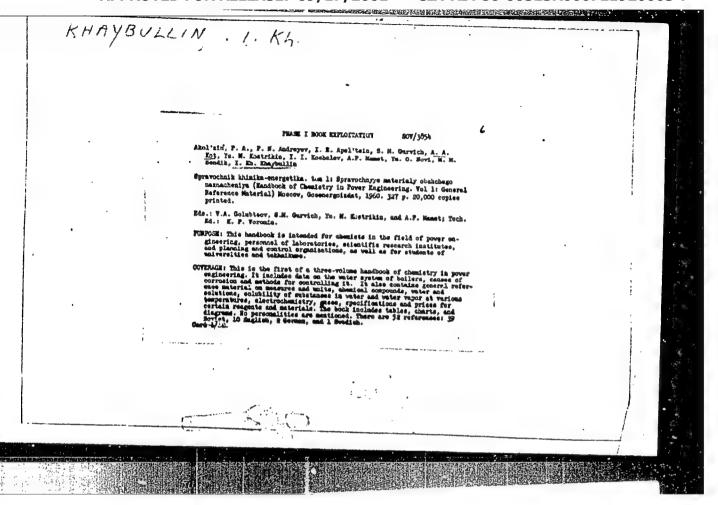
Card 5/5 is independent of temperature.

There are 6 figures and 5 references, of which 3 are Soviet, 1 German and 1 English.

ASSOCIATION: Energeticheskiy institut AN ESSR and Moskovskiy energeticheskiy institut (Power Institute, Ac. Sc. USSR, and Moscow Power Institute)

"APPROVED FOR RELEASE: 09/17/2001 C

CIA-RDP86-00513R000721920003-7



S/096/63/000/002/011/013 E194/E455

AUTHORS:

Khaybullin, I.Kh., Candidate of Technical Sciences,

Borisov, N.M., Engineer

TITLE:

A gamma-ray study of the density of the liquid phase of

a system at high temperatures and pressures

PERICUICAL: Teploenergetika, no.2, 1963, 78-82

TEXT: Studies of the solubility in steam of relatively involatile substances are increasingly important as steam temperatures and pressures increase. The density of such systems is important and hard to determine. Accordingly, γ-ray determinations of the density of the liquid phase of water-salt-systems are described, with results for NaCl solutions at pressures up to 400 atm. The general principles of the γ-radiation method are explained and the following formula is given for the density

$$\gamma_{t} = \gamma_{o} \lg \frac{N_{t}}{N_{o} + \Delta N_{t} + \Delta N_{c} \gamma} / \frac{N_{1}}{N_{o}}$$
(3)

where γ_0 - the density of the fluid under normal conditions, g/cm³; Card 1/3

S/096/63/000/002/011/013 E194/E455

A gamma-ray study ...

 N_{ϕ} and N_{1} - the recorded count speeds with the pressure vessel respectively copty and full of liquid at p = 1 atm and t = 20°C, impulses per minute; Nt - the recorded count rate on the filled vessel at the experimental temperature and/or pressure, impulses per minute; ANt - correction to No to allow for change in density of the walls of the vessel with temperature, impulses per minute; ΔN_{CQ} - correction for the influence of temperature of the counter on its effectiveness, impulses per minute. The determination of correction factors and the best level of water Of course, as the in the pressure vessel are explained. temperature and pressure in the vessel rise the solution concentration alters because of both evaporation and redistribution of solute between steam and liquid phases; a method of calculating the solution concentration under given conditions from the material balance is explained. The experimental equipment for measurements at 400 atm and 600°C used a Co⁶⁰ source of ten millicuries in a lead sheath and a scintillation counter accurate to within + 0.5%. Check tests on pure steam at 190 atm gave an average difference from tabulated data of + 1%; individual results had a scatter of Card 2/3

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\ gamma~ray study ...

tables. Original data were also obtained on the p-γ-t relationship tor 0.2 and 60 NaCl solution up to 190 atm; solution concentration was found to have a great effect on the parameters, particularly in the critical region. For example at 100 atm the density of 60 NaCl solution is 12% greater than that of water under the same conditions and it is nearly double at the critical pressure for water of 225.65. These results are only a first step in the gamma-ray study of the thermodynamic properties of water and steam solutions of substances of low volatility. There are 6 figures and 3 tables.

AASCOLATION: Energeticheskly institut im. akad. G.M.Krzhizhanovskom (Fower Engineering Institute imeni G.M.Krzhizhanovskiy)

Card 3/5

KHAYBULLIN, I. Kh., kand. tekim. nauk; BORISOV, N. M., inzh.

Problem concerning the mechanism of the transition of electrolytes dissolved in boiler feed water to high-pressure water vapor. Teploenergetika 10 no.3:12-16 Mr 163. (MIRA 16:4)

1. Energeticheskiy institut imeni akademika G. M. Krzhizhanovskogo.

(Feed water) (Electrolytes)

KHAYBULLIN, J.Kh., kond. tekhn. neuk

Ejection of ferric oxide wathrated with water value with high parameters. Energomagnizetroenie 10 no. 522-30 hy 164.

(MIRA 17:8)

KHA (BULLIN, I.Kh.; BORISOV, N.M.

Phase equilibrium diagrams of the systems sodium chloride - water, potassium chloride - water. Dokl. AN SSSR 165 no.3: 590-592 N 165. (MIRA 18:11)

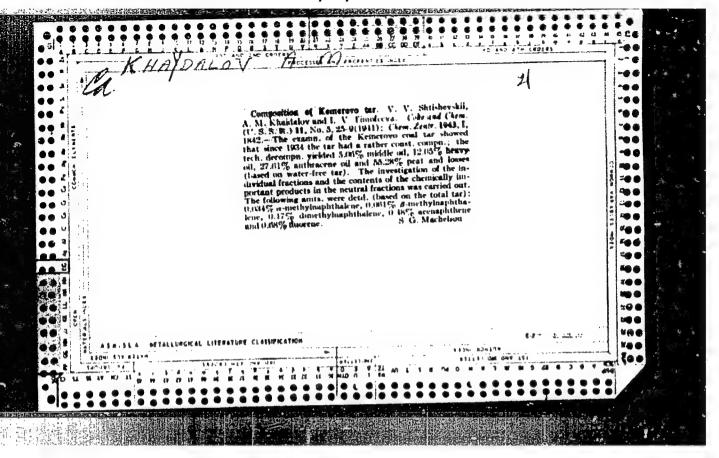
1. Energeticheskiy institut im. G.M. Krzhizhanovskogo. Submitted April 26, 1965.

ECPISOV, N.M.; KHAYBULLIN, I.Kh.

Volatility of components and the coefficient of distribution in the two-phase system NaCl - H₂O at high temperatures. Zhur. fiz. khim. 39 r. 6:1380-1387 Je² 65. (MIRA 18:11)

1. Moskovskiy energeticheskiy institut imeni Krwhizhanovskogo. Submitted Jan. 24, 1964.

EXAMPLE IN A CONTROL IN A CONTR



YENIKEYEV, S.G.; DOBRONRAVOV, F.H.; KHAYBULLINA, M.Kh.

i Saatie Herring and the control of the control of

Comparative biochemical characteristics of hollow and solid sugar best roots. Isv.vys.ucheb.sav.; pishch.tekh. no.4:19-21 '60. (MIRA 13:11)

1. Kirgisskiy sel'skokhozyaystvennyy institut. Kafedra fiziologii rasteniy.

(Sugar beets)

KHAYDARKULOV, G.

Pruning

Pruning of the grape trunk of different varieties. Sad i og., No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1958, Uncl.

1. KHAYTARKULOV, G.

2. USSR (600)

4. Grapes

7. Panseri variety of grapes, sad i og. No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

CHAYDILKULOY G.

KHAYDARKULOV, G.

"Agrobiological and Economicotechnological Characteristics of Popularly Selected Grapes Recommended for Commercial Grading from Uzbek SSR." Cand Agr Sci, Tashkent Agricultural Inst, Tashkent, 1954. (KL, No 8, Feb 55)

SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical Dessertations Defended at USSR Higher Educational Institutions (14)

KHAYDARKULOV, G.

CONTEST: MICH.

CONTEST: Control Learner, Proto. Harder, Mate. Te.

Control Acian Grape Varieties in the Window and Eggs.

Control Acian Grape Varieties in the Varieties of the results and research testitutes and experimentars of the Chraine and the Russian Lederation.

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CIA-RDP86-00513R000721920003-7

NATSVIN, A.V.; CHEREVATENKO, A.S.; VASILIYEV, K.V.; PROTOSEVICH,
L.A.; CHERNOVALOVA, V.P.; LEPLINSKAYA. A.A.; PAVLOV, A.K.;
TASHMATOV, L.T.; CHERNOV, P.K.; SOLDATOV, P.K.; KHAYDARKULOV, G.I.;
TSEYTLIN, M.G., kand. sel'khoz.nauk; KUZHETSOV, V.V., kand.
sel'khoz.nauk, otv. red.; KRIVONOSOVA, N.A., red.; SOROKINA, Z.I.,
tekhn. red.

[Best fruit and grape varieties for drying and preserving in the southwestern regions of Uzbekistan] Luchshie sorta plodovykh i vinograda dlia sushki i konservirovaniia v iugo-zapadnykh oblastiakh Uzbekistana. Tashkent, MSKh UzSSR, 1961. 162 p.

(MIRA 15:7)

1. Institut sadovodstva i vinogradarstva im. R.R.Shredera. Samarkandskiy filial. 2. Samarkandskiy filial Instituta sadovodstva i vinogradarstva im. R.R.Shredera (for all except Kuunetsov, Krivonosova, Sorokina).

(Uzbekistan-Fruit-Varieties) (Uzbekistan-Grapes-Varieties)

KHAYDARLIU, R.G.; KHAYDARLIU, S.Kh.

Organization of massive preventive examinations for the female population and incidence of gynecological diseases in a rural medical district. Akush. i gin. no.2:108-111'63.

(MIRA 16:10)

l. Iz Lalovskoy uchastkovoy bol'nitsy (glavnyy vrach S.Kh. Khaydarliu, nauchnyy rukovoditel' - prof. A.Z.Kocherginskiy)
Rezinskogo rayona Moldavskoy SSR.

(GYNECOLOGY)

KHAYDARLIU, R.G.; KHAYDARLIU, S.Kh.

Organization of massive preventive examinations for the female population and incidence of gynecological diseases in a rural medical district. Akush. i gin. no.2:108-11163.

(MIRA 16:10)

1. Iz Lalovskoy uchastkovoy bol'nitsy (glavnyy vrach S.Kh. Khaydarliu, nauchnyy rukovoditel' - prof. A.Z.Kocherginskiy) Rezinskogo rayona Moldavskoy SSR. (GYNECOLOGY)

KHAYDARLY, I.N.

Characteristics of candidomycosis in fibrocavernous tuberculosis. Zdravookhranenie 4 no.3227-30 My-Je'61. (MIRA 16:7)

l. Iz Moldavskogo nauchno-issledovatel¹skogo instituta tuberkuleza (dir.kand.med.nauk V.G.Sokol) i kafedry patologicheskoy anatomii (zav.kand.med.nauk V.Kh.Anestiadi) Kishinevskogo meditsinskogo instituta.

(MONOLIASIS) (TUBERCULOSIS)

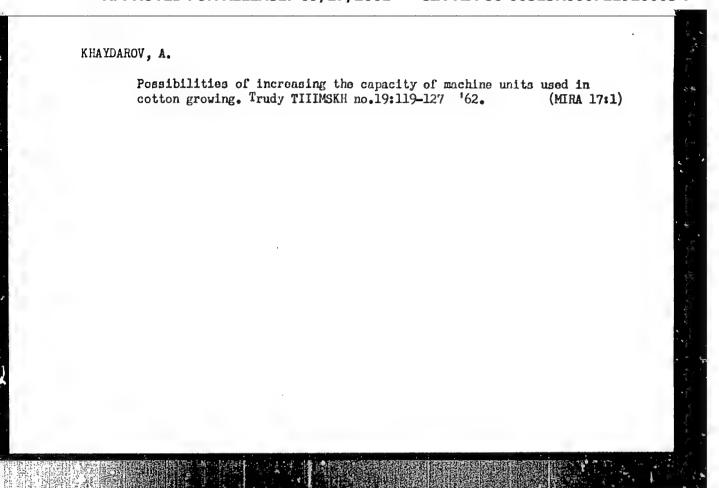
SATPAYEV; BOISHEV; POKROVSKIY; AMANZHOLOV; AUYEZOV; BALAKAYEV; KENESBAYEV;
SAURANBAYEV; MUKANOV; SMIRNOVA; DZHUMALIYEV; ISMAILOV; KHASENOV, K.;
NUSUNBEKOV; SULEYMENOV; SHAKHMATOV; DAKHSHLEYGER; BAZARBAYEV; TSUNVAZO;
SHAMIYEVA; SIL*CHENKO; GABDULLIN; MUSABAYEV; MAKHMUDOV; MULLINA;
MAMANOV; ISKAKOV; SARYBAYEV; KHAYDAROV; ARALBAYEV; NURMUGAMBETOVA;
KHASENOVA; SULEYMENOVA; AKHMETOV; ISENGALIYEVA; NOMINKHANOV;
DYUSENBAYEV; ABDRAKHMANOV.

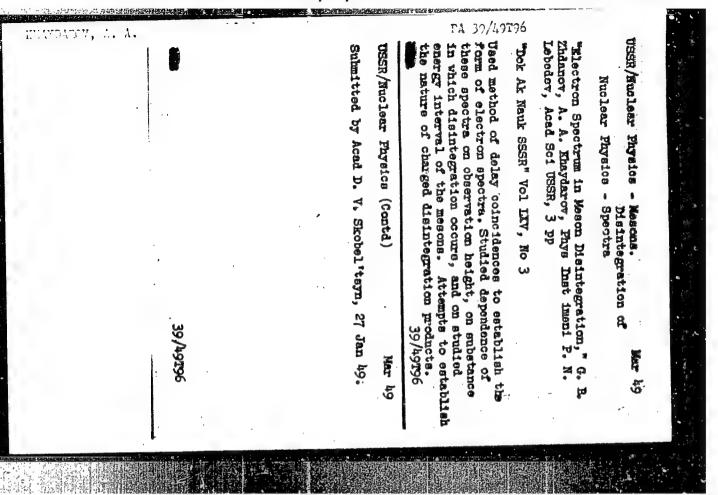
Malov, Sergei Efimovich, obituary. Vest.AN Kazakh.SSR 13 no.9:116-117 S '57. (MIRA 10:10) (Malov, Sergei Efimovich, 1880-1957)

KHAYDAROV, A., Cand Tech Sci - (diss) "Problems in the exploitation of cotton-picking machines." Tashkent, 1960. 24 pp with nomographs; (Teshkent Institute of Engineers in Irrigation and Mechanization of Agriculture); 120 copies; price not given; (KL, 19-60, 136)

KHAYDAROV, A.; LANDSMAN, M.I.

Determining the required quantity of tractor trailers for bulk transportation of machine-picked cotton. Trudy TIIIMSKH no.19:129-133 '62. (MIRA 17:1)





KHAYDAROV, A. A.

ESSR/ Nuclear Physics - Mesons

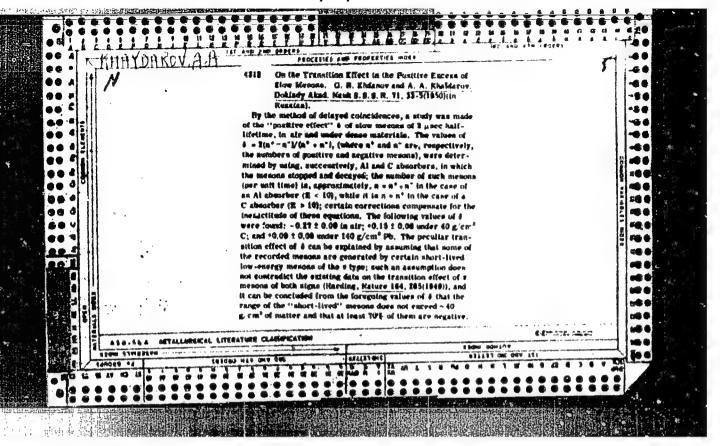
Aug 50

"Origin of Secondary Slow Mesons in the Atmospher " A. Abdullay v. O. Zhdanov, Tu. Kamenetskiy, A. Haumov, A. Khaydarov, Phys Inst imeni Lebedev, Acad Sci USER

"Zhur Eksper i Teoret Fis" Vol XX, No 8, pp 673-663

Authors reveal and discuss experimental data obtained by them on properties of slow mesons with lifetime of 2 microsec. Of several possible assumptions on mechanism governing generation of such mesons in the amosphere, most probable is decay process of other mesons possessing greater mass and smaller lifetimes. Submitted 9 Feb 50.

PA 165752



KHAY DAROV, A.A.

AUTHOR TITLE

ZHDANOV, G.B., KHAYDAROV, A.A.

56-4-11/52

PERIODICAL

The Investigation of the Penetrating Component of the Electron Muclear Showers by the Method of the Retarded Coincidences with a Hodoscope (Issledovaniye pronikayushchey komponenty elektronno-yadornykh livney metodom zapazdyvayushchikh sovpadeniy s godoskopom. Russian) Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 4, pp 706 - 713

(U.S.S.R.)

ABSTRACT

The authors investigated the energy spectrum of the slow positive pions, which are produced in electron nuclear showers by means of the method of retarded coincidences. The present paper gives the most important results of these investigations. The processes of production of comparatively slow mesons on the occasion of the nuclear interactions of the particles of cosmic radiation with matter were investigated at energies of the primary particles of ~ 5 BeV and more. The experimental method was described in detail already in previous papers. On the occasion of the analysis of the hodoscopical recordings the authors were able to subdivide all showers into sweral types: Two-fold 5-showers, showers, "accompanied by air" (?), showers in which several counters above the device respond, - all remaining showers belong either to the group of electronic showers or to a group of cases which are difficult to be interpreted. The analysis of the data put together in a table confirms the fact that by means of the method discusses here a voluminous expe-

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96-4-11/52

The Investigation of the Penetrating Component of the Electron Nuclear Showers by the Method of the Retarded Coincidences with a Hodoscope rimental material may be dealt with.

The individual chapters of this paper deal with the secondary interactions in the showers, the determination of the spectrum of the ranges of the positive pions and the intensity of the production of slow mesons at different energies of nuclear interaction.

Some final conclusions - The intensity of the inversely directed flux of positive mesons amounts to 24 + 7% of the directly directioned meson flux. The number of positive pions with a range of the order of magnitude 20 g/cm depends upon the energy of the producing particle and at the increase of this energy it decreases somewhat. In the case of moderate energies of the producing particle (not above 5 BeV) the number of the produced slow mesons also depends still slightly upon the nuclear charge number. (With & illustrations). Scientific Research Institute "NIGRIZOLOTO" of the Ministry for Norfer-

ASSOCIATION

PRESENTED BY SUBMITTED AVAILABLE Card 2/2

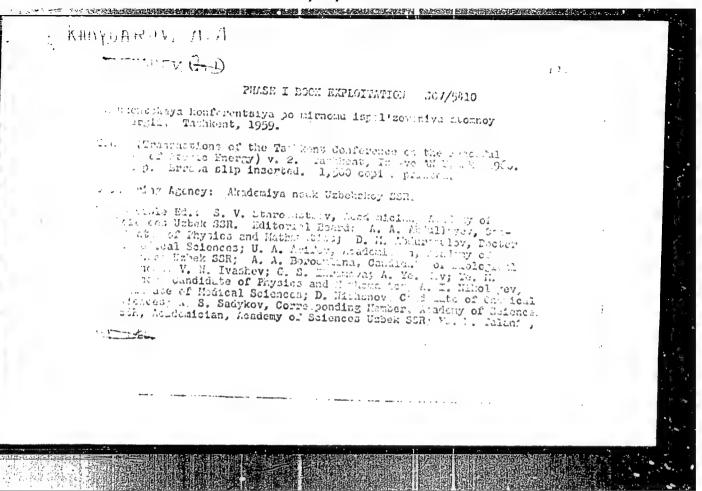
27.11.1956 Library of Congress ABBULLAYEV, A.A.; LOBANOV, Ye.M.; KHAITOV, B.K.; KHAYDAROV, A.A.

Use of the tritium radioisotope in studying the dynamics of underground water. Isv.AN Us.SSR.Ser.fiz.-mat.mauk no.6; 82-83 159. (MIRA 13:6)

1. Institut yadernoy fiziki AN Us.SSR.

(Tritium—Isotopes) (Water, Underground)

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURICRE: The publication is intended for scientific workers and the intended in enterprises where radicactive isotopes and nuclear radiation are used for research in chemical, geometrical, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Trankent Conference on the Forseful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of muclear radiation, including; production and chemical analysis of radicactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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· Transactions of the Tashkent (Cont.)

SOV/5410

instruments used, such as automatic regulators, flowerers, level fuges, and high-sensitivity from-relays, are described. To personalities are mentioned. References follow individual

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AUTHORS: Abdullayev, A.A., Lobanov, Ye.M., Novikov, A.P. and Khaydarov, A.A.

TITLE: Radioactive Analysis of Skarns (Silicate Contact Gaugue) of the Ingichka Occurrence

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, No.4, pp. 65-74.

TEXT: The paper contains results on the practical measurement of the concentration of W, Mn, Na, Al and Fe in the skarns of the Ingichka tungsten occurrence. The measurements were carried out according to a method elaborated by the authors (Ref.3) which permits to prove simultaneously several elements in a test without destoying of the test. For this aim the tests were radiated by neutrons; that led to the origin of radioactive isotopes. Then the identification of the elements in the test was performed simultaneously according to the half-life and according to the energies of the X-radiation. Here the half-life curves were traced for every element in a special region of energy being characteristic for the element. The experiments have

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Radioactive Analysis of Skarns of the Ingichka Occurrence

confirmed that the method proposed by the author in (Ref.3) for the identification of several elements in a test is possible without a separation of the elements. The method is suitable for radioactive wall logging.

There are 9 figures, 3 tables and 8 references: 6 Soviet and 2 American.

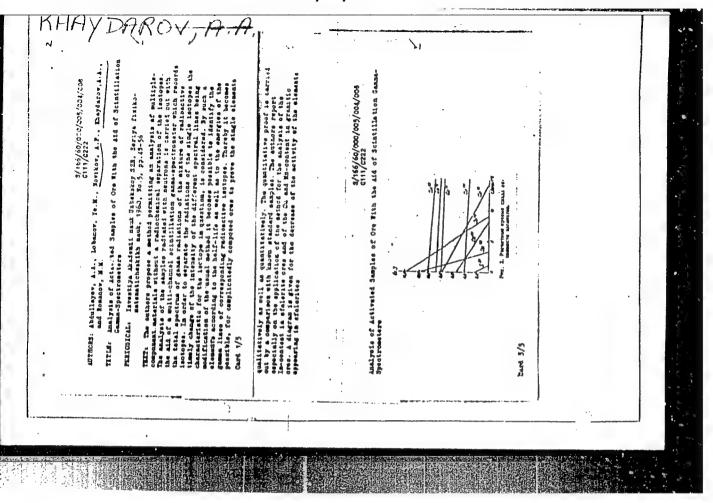
ASSOCIATION: Institut yadernoy fiziki AN Uz SSR (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR)

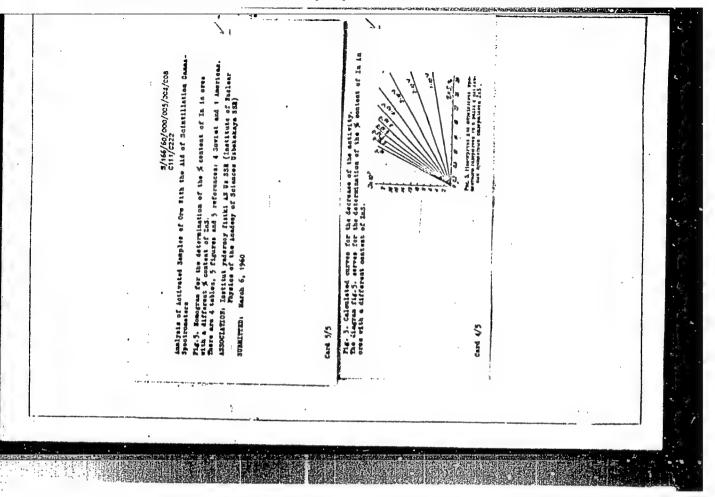
SUBMITTED: March 6, 1960

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KHAYDAROV, A.A.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnom khozyayatve SSSR. Riga, 1960.

Radioaktivnyye imotopy i yadernyye izlucheniya v narednom khozyayatvo SSSR; trudy Vaesoyumogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Seveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atemnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel'; Card 1/11

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Radioactive Isotopes and Nuclear (Cont.)

Tech. Ed.: A. S. Polosina.

PURPOSE: The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transic-thms of the All-Union Conference of the Introduction of Radio-active Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Galudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SCSE (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Edences USSR, Gosplan SSSE (State Planning Committee of the Council of Ministers of the USSR). Gosplan SCOM (State Planning Committee of the Council of Ministers of the Scientific Scientifi

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Radioactive Isotopes and Nuclear (Cont.)

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development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

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KHAYDAROV, A. A., CAND PHYS-MATH SCI, "UTTERATION OF NUCLEAR RADIATIONS IN ANALYZING THE COMPOSITION OF ROCK SPECIMENS AND ORE CONCENTRATES." TASHKENT, 1961. (ACAD SCI UZSSR. DEPT OF PHYS-MATH SCIENCES). (KL-DV, 11-61, 209).

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S/075/61/016/001/004/019 B013/B055 &

AUTHORS:

Lobanov, Ye. M., Romanov, O. M., Romanov, M. M., and

Khaydarov, A. A.

TITLE:

Determination of Copper and Manganese in Ores by Neutron

Activation Analysis of Induced Radioactivity

PERIODICAL: Zhurnal analiticheskoy khimii, 1961, Vol. 16, No. 1, pp. 25-28

TEXT: In the present work the authors studied the applicability of γ-spectrometry in the activation analysis for copper and manganese in rock samples by using a low-intensity neutron flux (10⁷-10⁸ neutrons·cm⁻²·sec⁻¹ for activation. Rock samples containing 0.03 - 0.9% copper and 0.01 - 0.3% manganese were analyzed. The chemical composition of the investigated syenite-diorite and the nuclear characteristics of the elements contained in this rock appear in Table 1. Basing on these data, the conditions for the quantitative determination of copper and manganese were worked out. For calibration, standard samples of known copper- and manganese content were propered and irradiated with slow Po-Be neutrons from a neutron

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Determination of Copper and Manganese in Ores S/075/61/016/001/004/019 by Neutron Activation Analysis of Induced B013/B055 Radioactivity

source of activity approximately 20 c. A paraffin block was used as a moderator. The duration of irradiation was chosen with consideration for the expected activity calculated for the particular isotopes contained in the sample from the known expression (Ref. 8) A = n·3·6 act N·1 - exp(- λ)], where n³ = thermal neutron flux, 6 = effective activation cross section, N = total number of nuclei of the isotope in the sample, λ = disintegration constant = $0.695t/T^{1/2}$, and t = duration of irradiation. The γ -activity of the activated samples was measured with a γ -scintillation spectrometer (Ref. 9). Fig. 1 shows the γ -spectrum of Cu 64 , Fig. 2 that of Mn 56 and Fig. 3 the superposed γ -spectra of Cu and Mn. For the quantitative determination of Cu and Mn in the test pieces, the γ -spectra measurements of the standard samples were plotted in the diagram shown in Fig. 4. This method makes the direct determination of 0.03 - 0.9% Cu and 0.028 - 0.3% Mn possible. The percentages of Cu and Mn in various rock samples as determined by the suggested method and the results of the chemical analyses appear in Table 2. The statistical measuring error did Card 2/3

Determination of Copper and Manganese in Ores S/075/61/016/001/004/019 by Neutron Activation Analysis of Induced B013/B055 Radioactivity

not exceed 5%. Repeated measurements were in satisfactory agreement, the deviations being around 3%. The use of higher neutron fluxes by increasing the activity of the source or by applying a (skvazhinnyy) neutron generator (Ref. 10) shortens periods of irradiation and increases the sensitivity of the activation analysis. There are 4 figures, 2 tables, and 10 references: 4 Soviet, 3 French, and 3 US.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR, Tashkent (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR,

Tashkent)

SUBMITTED: October 1, 1959

Card 3/3

ABDULLAYEV, A.A.; BIBINOV, S.A.; LOBANOV, Ye.M.; KHAITOV, B.K.; KHAYDAROV, A.A.

Using radioactive isotopes as indicators for studying the dynamics of underground waters. Uzb.geol.zhur. 6 no.1:57-61 '62.

1. Akademiya nauk UzSSR.
(Water, Underground) (Radioisotopes)

ABDULLAYEV, A.A.; KHAITOV, B.K.; LOBANOV, Ye.M.; KHAYDAROV, A.A.

Measurement of the activity of tritium in water samples. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 6 no.5:40-44 '62. (MIRA 15:11)

 Institut yadernoy fiziki AN UzSSR. (Tritium)

BIBINOV, S.A.; POBOYKOVA, Ye.G.; PETRENKO, V.D.; KHAYDAROV, A.A.

Radiometric method of analyzing the products of tungsten ore dressing. TSvet. met. 36 no.7:24-86 Jl '63. (MIRA 16:8)

(Tungsten—Analysis) (Radiometry)

LOBANOV, Ye.M.; NOVIKOV, A.P.; KHAYDAROV, A.A.; GUREVICH, L.G., otv. red.; KISELEVA, V.N., red.; KARABAYEVA, Kh.U., tekhn. red.

[Activation analysis in conditions of geological boreholes] Aktivatsionnyi analiz v usloviiakh geologicheskikh skvazhin. Tashkent, Izd-vo AN Uzb.SSR, 1963. 66 p. (MIRA 17:2)

DVUKHBABNAYA, TS.M.; LOBANOV, Ye.M.; MIRANSKIY, I.A.;
POZYCHANYUK, V.F.; SAYFUTDINOVA, D.G.; KHAYDAROV, A.M.

Use of neutron activation analysis in determining minute amounts of gold and rhenium in rock samples. Zav. lab. 30 no.7:822-824 '64. (MIRA 18:3)

1. Institut yadernoy fiziki AN UzSSR.

KHAYDAROV, A.Kh., dotsent.

Problem of access to an abscess of the lesser peritoneal sac.

Khirurgiia no.2:73-75 F 154. (HLRA 7:5)

1. Iz. kliniki gospital'noy khirurgii Samarkandskogo meditsinskogo instituta im. akad. I.P.Pavlova (zaveduyushchiy kafedroy - professor V.P.Bodulin). (Omentum) (Abscess)

KHAYDAROV, A.Kh.; GALANKIN, N.K.

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Production of experimental stenosis (coarctation) of the acrta.

Khirirgiia, no.9:62-64 8 *55. (MLRA 9:2)

1. Iz laboratorii klinicheskoy fiziologii (zav. deystvitel'nyy chlen AMN SSSR prof. P.K. Anokhin) Instituta khirirgii imeni A.V. Vishnevskogo (dir.-chlen-korrespondent AMN SSSR prof. A.A. Vishnevskiy) Akademii meditsinskikh nauk SSSR. (COARCTATION OF ACRTA, exper. method)

USSR/Human and Animal Physiology. Blood Circulation. The Heart. T-5

Abs Jour: Rof Zhur-Biol., No 12, 1958, 55599.

Author: Khaldarov, A. Kh., Dzhagaryan, A. D., Mazayov, P. N., Savchonkov, I. I.

Inst

Titlo : The Reentgenologic and Photographic Diagnosis of an Exporimentally Induced Aerta Coarctation in Dogs.

Orig Pub: Eksperin. khirurgiya, 1956, No 4, 27-32.

Abstract: In 12 dogs, the aerta was stitched lengthwise with a single-stitch apparatus, by using tantalum clamps on the various levels of the theracic section. In 15 puppies of various ages, an aertic stenesis was porformed at points higher and lower than the artorial flow, thus creating an infantile type coarctation. In examining the operated animals, a phono-

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Abs Jour: Rof Zhur-Biol., No 12, 1958, 55599.

cardiogram registration was made of the theracic region and of the esophagus, as well as an electrocardiogram (ECG). Also, roontgonography, sorial angiocardiography, and kyrography were used in the examination. The appearance of systolic and diastolic noise was observed in nortic stenesis, on the lovel of the stenosis, and also vortex movements of the contrast ratter above the stenesis. The reentgenologic endoauscultation method makes it possible to determine the site, the degree, and the length of the acrta stonosis. The authors are of the opinion that angiocardiography and rocntgonologic endoauscultation are of great significance for the diagnosis and for the choice of methods in treating aerta coarctation in man.

Card : 2/2 KHAIDAROV, A. Kh., MAYSYUK, A.P. (Moskva)

Morphological characteristics of experimental coarctation of the aorta. Eksper.khir. 3 no.5:58-59 S-0 58 (MIRA 11:11) (AORTA-DISEASES)

KHAYDAROV, A. Kh.: Doc Med Sci (diss) -- "Some physiological characteristics of hemodynamic shifts in experimental coarctation of the aorta". Moscow, 1959. 22 pp (Acad Med Sci USSR), 250 copies (KL, No 15, 1959, 119)

KHAYDAROV, A.Kh.

Physiological mechanisms of functional compensation in experimental acrtic coarctation. Hed. zhur. Uzb. no.6:51-53 Je '61.

(MI:M 15:1)

1. Iz gospital'noy khirurgicheskoy kliniki Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova. (AORTA_DISEASES)

KHAYDAROV, A.Kh.; GALAYKO, S.M.

Treatment of extensive burns. Med. zhur. Uzb. no.11:66-68 N '61. (MIRA 15:2)

1. Iz kliniki gospital'noy khirurgii (zav. - doktor med.nauk Khaydarov, A.Kh.) Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni akademika I.P.Pavlova. (BURNS AND SCALDS)

KHAYDAROV, A.Kh., prof.: OBUKHOVA, L.M.; VAKHIDOV, A.Z.

Strengthening the abdominal wall in recurrent ventral hernias by means of plastic repair of the aponeurosis and skin with an A.A. Limberg counter graft. Khirurgiia no.6195-97 Je 161.

(MIRA 14:11)

1. Iz gospital noy khirurgicheskoy kliniki (zav. - prof. A.Kh. Khaydarov) Samarkandskogo meditsinskogo instituta.

(HERNIA) (SKIN-TRANSPLANTATION)

S/242/62/000/008/001/001 1053/1215

AUTHORS

Khaydarov, A. Kh., Prof. Cand. Med. Sc.; Galayko, S. M., Levin, S. I., and Foygel'man.

A. Ya.

TITLE.

Homo-autoplastic surgery in burns of irradiated animals

PERIODICAL

Meditsinskiy zhurnal uzbekistana, no. 8, 1962, 55-57

TEXT: The biologic principles of the successful transplantation of homografts are not yet understood. Twenty six rabbits of about the same weight and age were subjected to charing burns on their backs (9 cm²). The necrotic scab was removed at regular time intervals and an auto- or homograft was immediately transplanted into the opened wound. Twenty rabbits were subjected to repeated X-irradiation. (2 × 600r). Penetrating radiation affects the recipient of the homeograft, which, when transplated during the height of radiation sickness dissolved rapidly. The healing process of autografts is slower in the inradiated animals than in the controls. Homografts transplatened from irradiated animals, 7 days after irradiation with 600 r, to healthy animals, remained alive for a long time and the epithelisation of the wound occured after 4-5 weeks

ASSOCIATION. Kafedra gospital'noy khirurgii Samarkandskogo gosudarstvennogo meditsinskogo instituta (Chair of Hospital Surgery State Institute of Medicine, Samarkand)

Card 1/1

GALAYKO, S.M., kand. med. nauk; KHAYDAROV, A.Kh., prof.; MUSAYEV, T.M., aspirant,

Surgical treatment of trophic ulcers of the leg. Nauch. trudy SamMI 22:89-93 '63. (MIRA 17:9)

1. Iz kliniki gospital'noy khirurgii Samarkandakogo meditain-skogo instituta.

KHAYDAROV, A.Kh., prof.; OBUKHOVA, I.M., dotsent; GALAYAO, S.M., kand, med. nauk

Restorative operations in cicatricial contractures. Nauch. Trudy SamMI 22:100-106 '63. (MIRA 17:9)

1. Iz kliniki gespital'noy khirurgii Samarkandskogo meditsinskogo instituta.

KHAYDAROV, A.Kh., prof.; RASULOV, Kh.Kh., ispolnyayushchiy obyazannosti dotsenta

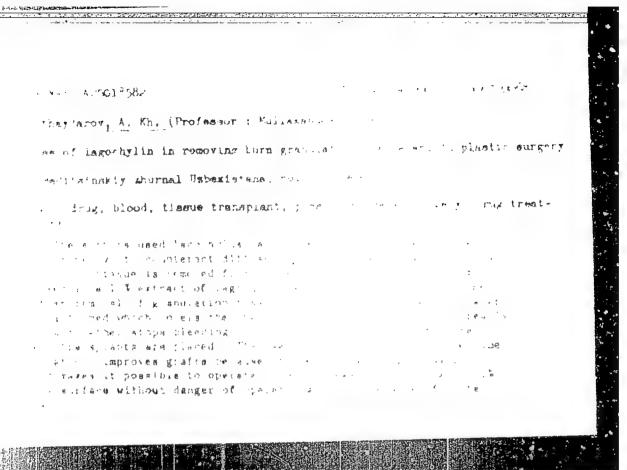
Primary cranioplasty by means of plexiglas in cranial traumas. Nauch. trudy SamMI 22:107-111 '63. (MIRA 17:9)

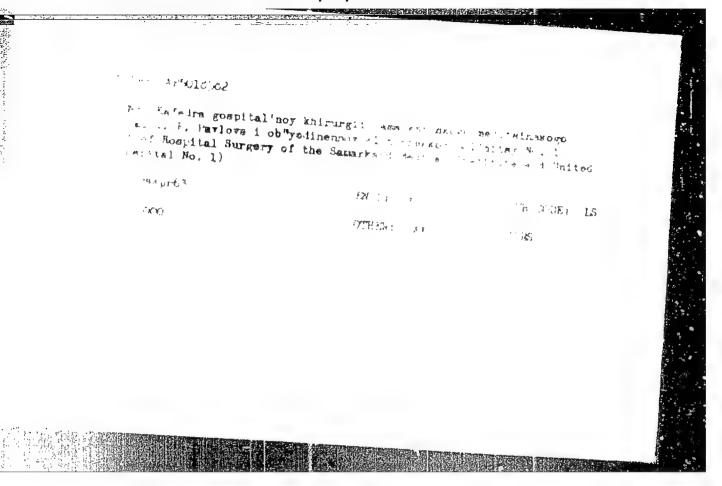
1. Iz kafedry gospital'noy khirurgii Samarkandskogo meditsinskogo instituta.

KHAYDAROV, A.Kh., prof.; HAFIKOV, A.U.

Importance of sedimentation cystography in the diagnosis of tumors of the urinary bladder. Nauch. trudy SamMI 22:112-114 '63. (MIRA 17:9)

1. Iz gospital'noy khirurgicheskoy kliniki Samarkandskogo meditsinskogo instituta.





KHAYDAKOV, A.Kh.; MILLAKAMDOV, S.A.

Hemostatic effectiveness of Lagochilus tincture in dermatoplasty in burns. Vest. khir. 92 no.6:109-110 Je '64.

(MIRA 18:5)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. A.Kh. Khaydarov) Samarkandskogo meditsinskogo instituta imeni Pavlova (rektor - dotsent M.N. Khantov) i ob"yedinennoy klinicheskoy bol'nitsy No.1 (giavnyy vrach - Ya.U. Uzakov).

1 40934-65 EUT(m) ACC NR AR6011864 SOURCE CODE: UR/0299/65/000/020/K017/K017 AUTHOR: Khaydarov, A. Kh.; Galayko, S. M. TITLE: Morphological change of homotransplants in irradiated animals SOURCE: Ref. zh. Biologiya, Abs. 20M102 REF SOURCE: Nauchn. tr. Samarkandsk. med. in-t, v. 31, 1964, 45-48 TOPIC TAGS: animal experiment, tissue transplant, skin physiology, radiation biologic effect, radiation sickness rabbit ABSTRACT: Six rabbits were irradiated with single 400 to 600 r doses; and, following irradiation skin from these animals was transplanted to nonirradiated animals in 1 to 3 days (1st series, 5 rabbits), in 7 days (2nd series, 5 rabbits) and in 12 to 2 mos (3rd series, 5 rabbits). Skin from nonirradiated donors was transplanted to 3 control rabbits. Morphology of transplant accretion in rabbits of the lat and 2nd series corresponded to that of control rabbits (the wound was replaced by scan tissue in 3 weeks). In rabbits of the 3rd series, the transplents from animals who had survivied acute radiation sickness took for a longer period (dystrophic changes in the transplant were found only after 4 weeks). N. S. /Translation of abstract/. SUB CODE: 06 UDC: 577.99

KHAYDAROV, D.

Variability of the cotton wilt agent. Uzb. biol. zhur. 9 no.4:21-25 (MIPA 18:10)

1. Vsesoyuznyy institut zashchity rastenty.

NAGIBIN, Ya.D., prof., doktor sel'skokhozyaystvennykh nauk; KHAYDAROV, E., kand. sel'skokhoz. nauk

Transforming the nature of the S-460 cotton variety. Agrobiologiia no.6:831-835 N-D *63. (MIRA 17:2)

1. Tadzhiskiy sel'skokhozyaystvennyy institut, Dushanbe.

SPERANSKAYA, A.A.; KHAYDAROV, I.Sh.

Polarograph for determining the oxygen content in fresh-water lakes and rivers. Vest. Mosk. un. Ser. 3:Fiz., astron. 18 no.5:24-27 S-0 '63. (MIRA 16:10)

1. Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo universiteta.

KHAYDAROV, I.Sh.

Device for determining dissolved oxygen. Vest.Mosk.un.Ser.6: Biol., pochv. 20 no.4:59-64 Jl-Ag '65.

(MIRA 18:12)

1. Zoologo-entomologieheskaya laboratoriya Moskovskogo universiteta.

RHALDSACV, 7.

Dave representat raythm of some forage plants at different altitudes of the Unrabed Minateins. Tob. Well intr. 9 no.1949452 (65. MISA 1836)

1. Destibut botaniki AN FraSh.

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AUTHORS:

Muminov, M., Khaydarov, Kh.

TITLE:

Absorption of 7-rays by burnt bricks

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 68, abstract 1A586

("Tr. Samarkandsk. un-ta", 1962, no. 117, 3 - 11)

An experimental study was made on the attenuation of a wide and a TEXT: narrow γ -ray beam passing through an absorber of complex composition (burnt brick). As a source of γ -radiation a preparation of \cos^{60} was used. Recording of the pradiation was carried out with the aid of a Geiger-Miller counter and a B-type installation. The results of the measurements are presented in the form of a series of diagrams.

[Abstracter's note: Complete translation]

Card 1/1

S/081/62/000/015/036/038 B171/B101

AUTHORS:

Khaydarov, Kh. F., Abduvaliyev, A. A., Sultanov, A. S.

TITLE:

Investigation of the polymerization of sylvan in the

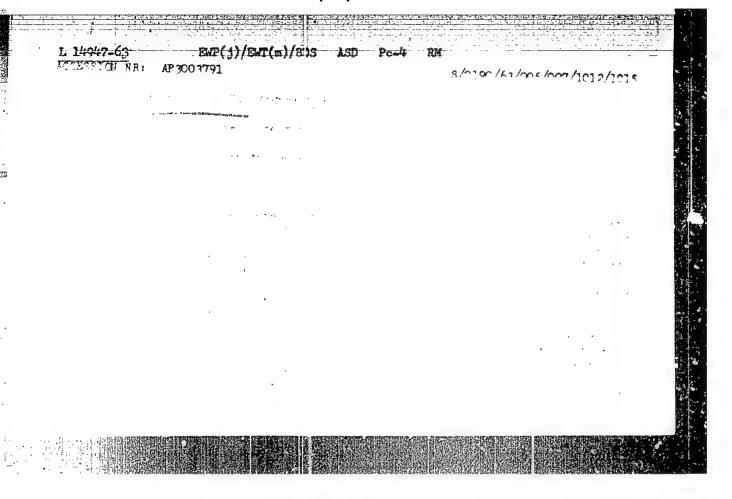
presence of organic-titanium-silicon halide ionic catalysts

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 15, 1962, 632, abstract 15R35 (Sb. "Vopr. izpol'zovaniya mineral'n. i rastit syr'ya Sredn. Azii." Tashkent, AN UZSSR, 1961, 128-132)

TEXT: The reaction of the polymerization of sylvan under the action of complex catalysts: Ti[CH3Si]2Cl10, Ti[(CH3)2Si]2Cl8, Ti[(CH3)3Si]2Cl6 and Ti[C6H5Si]2Cl10 has been investigated. The reaction was carried on for 5 hours at 50°C and the amount of the catalyst used represented 0.5-4% mole per mole sylvan. The yield of the polymer increases with the decease of the number of methyl groups in the catalyst. The molecular weight of polysylvan ranges from 1500 to 2000. Polysylvans thus prepared may be used in the paint and varnish industry. [Abstracter's note: Complete translation.]

Card 1/1



KHAYDAROV, Kh.F.; SULTANOV, A.S.; ALDUVALIYEV, A.A.

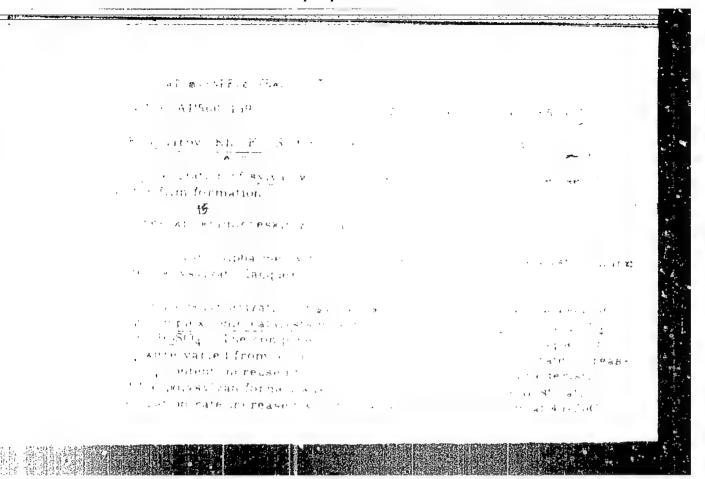
Polime: Isation of sylvan in the presence of complex tenic cataly: a consisting of antimony, cadmium, and aluminum chlorides and organosilicon compounds. Khim. i tiz.-khim. prirod. i sint. polim. no.18131-137 462 (MIRA 1881)

Polymerization of sylvan in solution, 1513,2138-142

ABDUVALIYEV, A.A.; KHAYDAROV, Kh.F.; SULTANOV, A.S.; SIGOV, V.V.; DORONIN, N.L.; TARASOVA, A.G.

Production of polysylvan from the wood-chemical sylvan. Gidroliz. i lesokhim.prom. 17 no.2:22-23 '64. (MIRA 17:4)

1. Institut khimii polimerov AN UzbSSR (for Abduvaliyev, Khaydarov, Sultanov). 2. Ashinskiy lesokhimicheskiy kombinat (for Sigov, Doronin, Tarasova).



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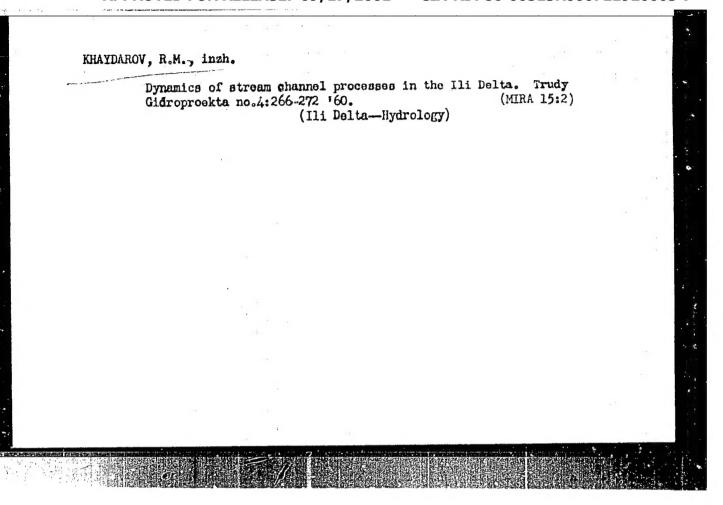
ABDUVALIYEV, A.A.; KHAYDAROV, Kh.F.; SAGDULLAYEVA, P.; OBNOSOVA, A.D.

Lacquers based on urea-formaldehyde resins modified with furfuryl alcohol. Lakokras.mat. i ikh prim. no.2:67-69 '64. (MIRA 17:4)

KHAYDAROV, K.Kh.

Triacanthine, a new preparation with spasmolytic action. Med. prom. 17 no.6253-54 Je 63 (MIRA 1724)

l. Vsesoyuznyy nauchno-issledovatel skiy institut lekarst-vennykh i aromaticheskikh rasteniy.



BOK, I.I.; BARBOT de MARNI, A.V.; VISLOGUZOVA, A.V.; GALIYEV, M.S.; LI, A.B.; LOMONOVICH, M.J.; YAKOVENKO, Z.V.; ASSING, I.I.; NURMANGALIYEV, A.B.; SOKOLOV, S.I.; GRIGOR'YEVA, Ye.P.; SEROV, N.P.; LEONOV, G.M.; ZAKHAROV, B.S.; ZAGAYNOV, V.I.; BOROVSKIY, V.M.; LITVINOVA, A.A.; POGREBINSKIY, M.A.; NASONOVA, O.M.; KHAYDARGV, R.M.; SUVOROVA, R.I., red.; ALFEROVA, P.F.; CORRELLED.

[Ili Valley, its nature and resources] Kliiskala dolina, ee priroda i resursy. Pod obshchei red. M.I.Lomonovicha. Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 338 p. (MIRA 16:8)

1. Akademiya nauk Kazakhekoy SSR, Alma-Ata. Institut geologicheskikh nauk. 2. Nauchryye sotrudniki Instituta geologicheskikh nauk AN KazSSR (for Bok, Barbot de Marni, Visloguzova,
Galiyev, Li, Lomonovich, Yakovenko). 3. Institut pochvovedeniya
AN KazSSR (for Assing, Nurmangaliyev, Sokolov, Borovskiy,
Litvinova, Pogrebinskiy). 4. Institut botaniki AN KazSSR (for
Grigor'yeva, Nasonova). 5. Institut zoologii AN KazSSR (for
Serov). 6. Kazakhskiy politekhmicheskiy institut (for Leonov).
7. Ministerstvo sel'skogo khozyaystva KazSSR (for Zakharov).
8. Kazanskiy filial Instituta "Gidroproyekt" im. S.Ya.Zhuka
(for Khaydarov).

(Ili Valley--Physical geography)

KHAYDAROVA, R.H.

Geography of the industry of the northern districts of the Tajik S.S.R. Uch. zap. Dush. gos. ped. inst. 35. Ser. geog. no.2:161-184, '62. (Tajikistan-Industries, Location of)